

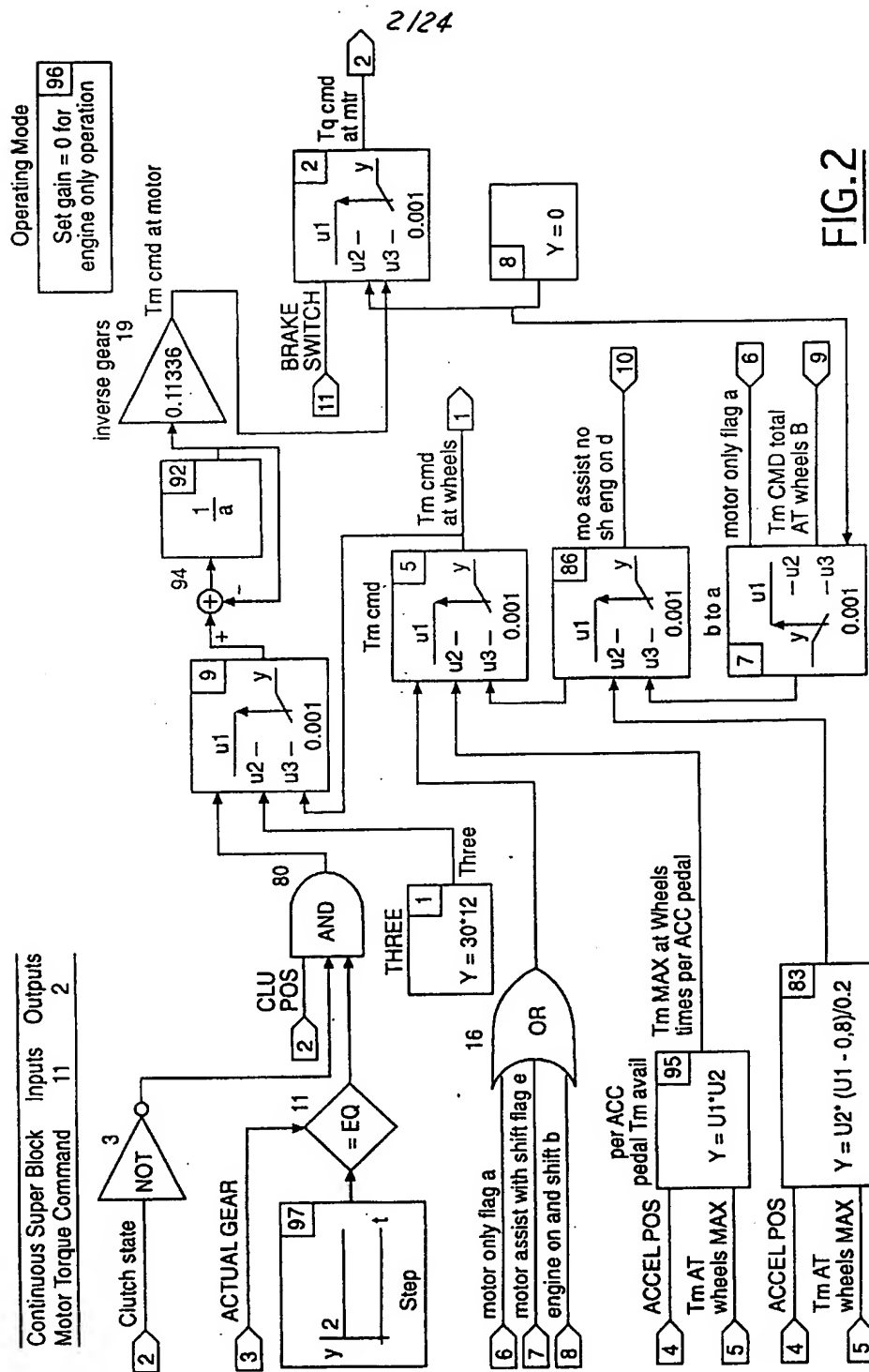
Variable	Mean	SD	Median	Mode	Range	Skewness	Kurtosis
Age	35.5	10.5	35	35	25-55	0.1	3.0
Gender	1.5	0.5	1	1	1-2	0.1	3.0
Marital Status	1.5	0.5	1	1	1-2	0.1	3.0
Education	12.5	1.5	12	12	10-15	0.1	3.0
Occupation	1.5	0.5	1	1	1-2	0.1	3.0
Income	1.5	0.5	1	1	1-2	0.1	3.0
Religion	1.5	0.5	1	1	1-2	0.1	3.0
Health	1.5	0.5	1	1	1-2	0.1	3.0
Stress	1.5	0.5	1	1	1-2	0.1	3.0
Depression	1.5	0.5	1	1	1-2	0.1	3.0
Life Satisfaction	1.5	0.5	1	1	1-2	0.1	3.0
Quality of Life	1.5	0.5	1	1	1-2	0.1	3.0

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The diagram illustrates a torque split control system. It features several input/output ports and processing blocks:

- Inputs (left side):**
 - Continuous Super Block Torque Split 1: 1 (motor TQ Estimate), 20 (Inputs), 15 (Outputs)
 - Motor TQ Estimate: 1
 - motor tq at wheels: 4
 - Y = U*8.8215
 - Save Tm pedal motor per ACC pedal SAVE: 76
 - BRAKE SWITCH: 12
 - ACCEL POS: 3
 - Te AT wheels: 7
 - mtr only trigger: 6
 - save Te pedal: 72
 - Te per ACC pedal SAVE: 11
- Processing Blocks (SUPER BLOCKs):**
 - Save Tm wheels:** Takes Tm AT wheels (1) and outputs Tm AT wheels (74).
 - Te MAX avail AT wheels:** Takes Te MAX avail (4) and outputs Te MAX avail AT wheels (4).
 - ACCEL POS:** Takes ACCEL POS (3) and outputs ACCEL POS (3).
 - acc pedal flag:** Takes accel pedal flag (5) and outputs accel pedal flag (5).
 - Save Tm pedal motor per ACC pedal SAVE:** Takes Save Tm pedal motor per ACC pedal SAVE (76) and outputs Save Tm pedal motor per ACC pedal SAVE (76).
 - Te AT wheels SAVE:** Takes Te AT wheels (7) and outputs Te AT wheels SAVE (10).
 - save Te pedal:** Takes save Te pedal (72) and outputs save Te pedal (72).
 - Te MAX avail AT wheels:** Takes Te MAX avail AT wheels (4) and outputs Te MAX avail AT wheels (4).
 - ACCEL POS:** Takes ACCEL POS (3) and outputs ACCEL POS (3).
 - acc pedal flag:** Takes accel pedal flag (5) and outputs accel pedal flag (5).
 - Save Tm wheels:** Takes Tm AT wheels (1) and outputs Tm AT wheels (74).
 - Te MAX avail AT wheels:** Takes Te MAX avail (4) and outputs Te MAX avail AT wheels (4).
 - ACCEL POS:** Takes ACCEL POS (3) and outputs ACCEL POS (3).
 - acc pedal flag:** Takes accel pedal flag (5) and outputs accel pedal flag (5).
 - Save Tm pedal motor per ACC pedal SAVE:** Takes Save Tm pedal motor per ACC pedal SAVE (76) and outputs Save Tm pedal motor per ACC pedal SAVE (76).
 - Te AT wheels SAVE:** Takes Te AT wheels (7) and outputs Te AT wheels SAVE (10).
 - save Te pedal:** Takes save Te pedal (72) and outputs save Te pedal (72).
- Outputs (right side):**
 - Engine Torque Command: 10 (Te cmd at engine), 13 (Te cmd at engine), 12 (Te cmd at wheels)
 - Motor Torque Command: 97 (Tm cmd at wheels), 14 (Tm cmd at wheels), 15 (Tq cmd at mtr)

FIG. 1



20230303 09:34:34

Continuous Super Block	Inputs	Outputs
save Tm Pedal	2	1

EVENT DRIVEN BUFFER

96
Actual value is: $((1 - \exp(\lambda \cdot \text{ach})) / \lambda) \cdot \text{error}$
Current value for $\lambda \cdot \text{ach}$ is -10
Event driven reset integration may also be employed
Euler integration is sufficient for the discrete form.
(example shown below is for update rate = .01 sec)

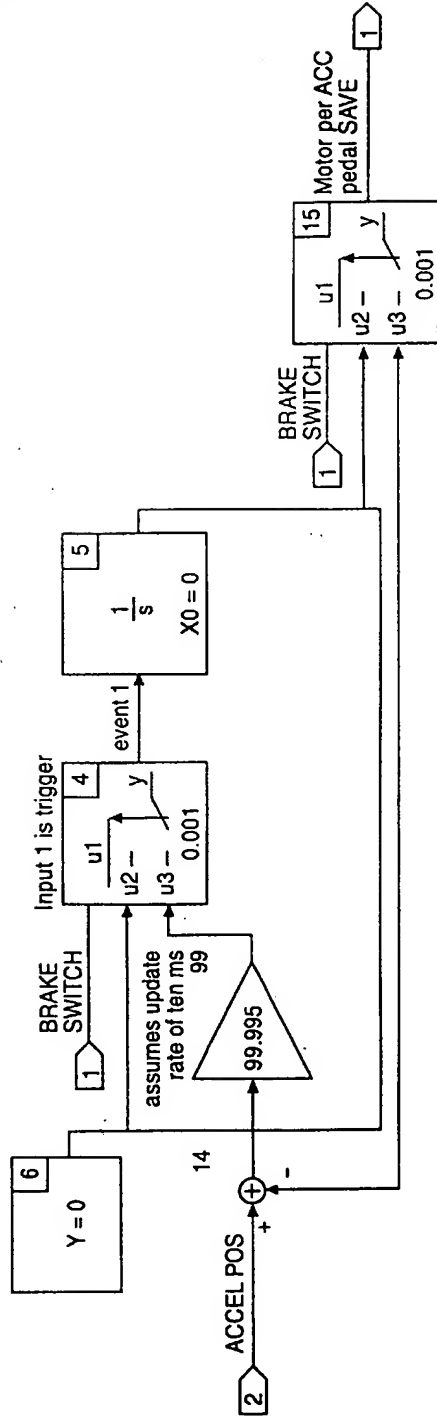


FIG.3

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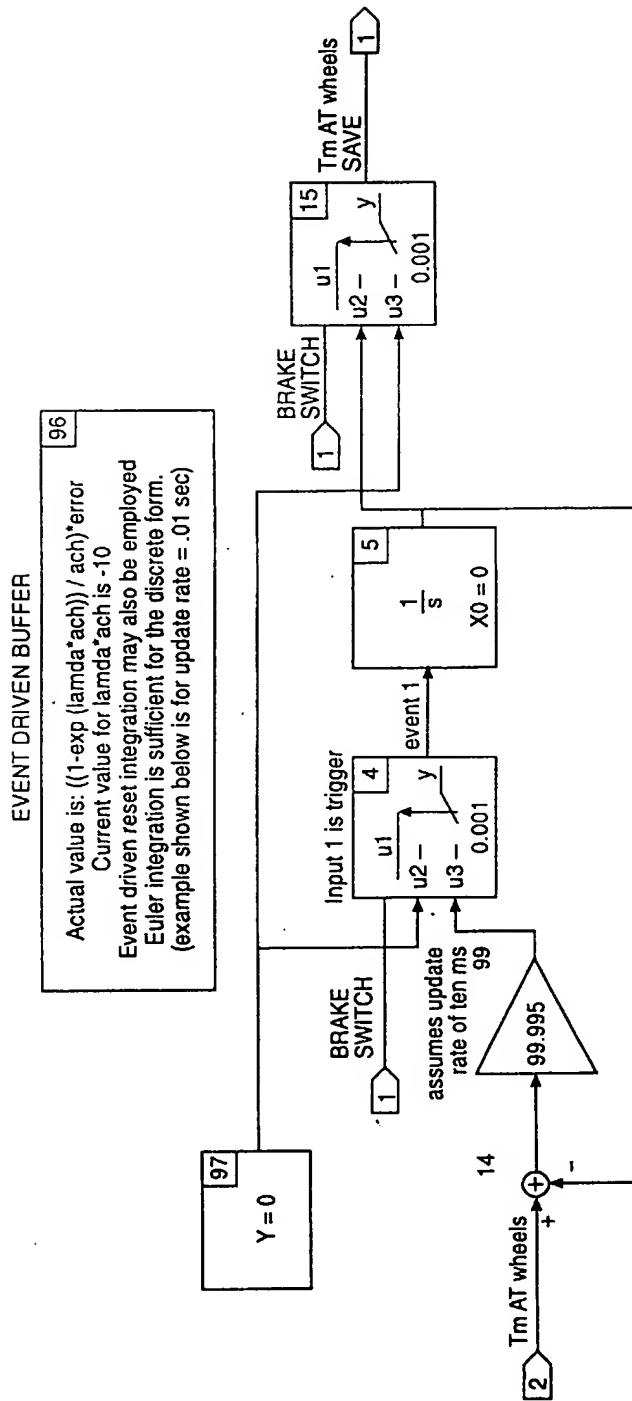


FIG. 4

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Continuous Super Block		Inputs		Outputs	
Engine TQ CMD for Pos Scaling		4		1	

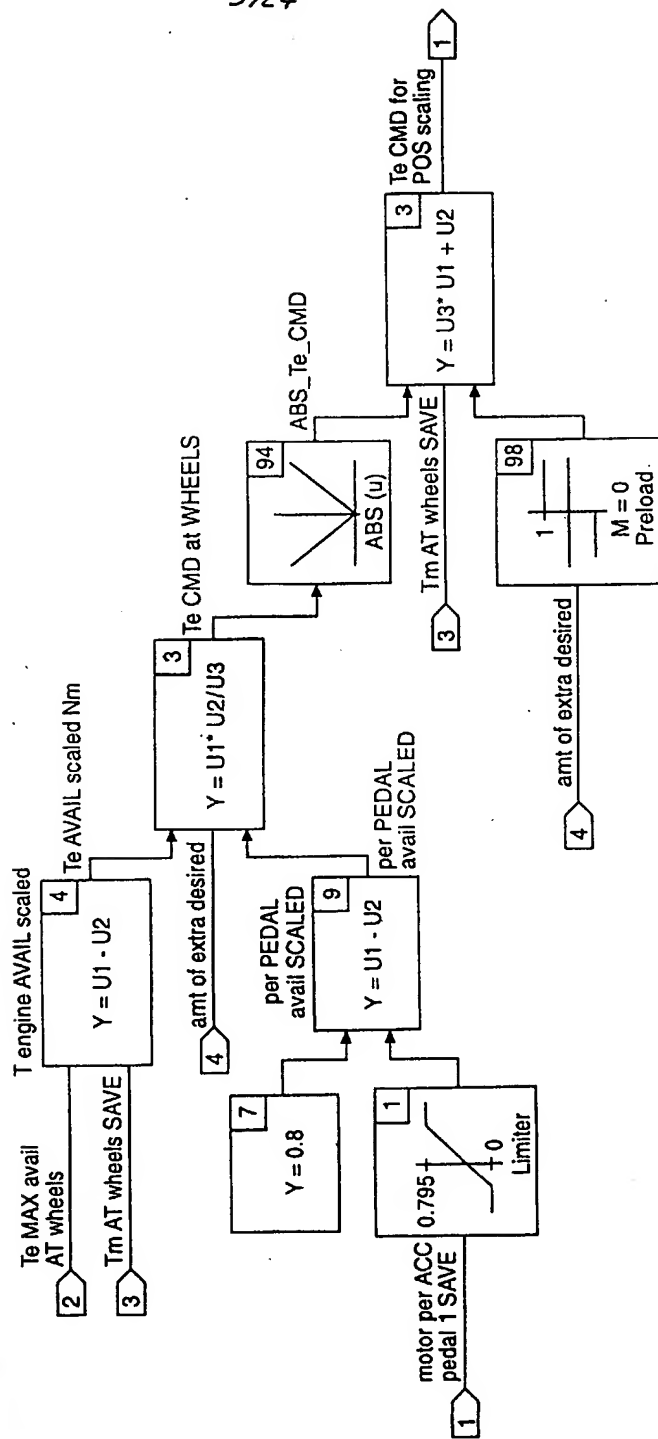


FIG.5

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Continuous Super Block	Inputs	Outputs
save Te pedal	2	1

EVENT DRIVEN BUFFER

96

Actual value is: $((1 - \exp(\lambda \cdot \text{ach})) / \lambda) \cdot \text{error}$
 Current value for $\lambda \cdot \text{ach}$ is -10
 Event driven reset integration may also be employed
 Euler integration is sufficient for the discrete form.
 (example shown below is for update rate = .01 sec)

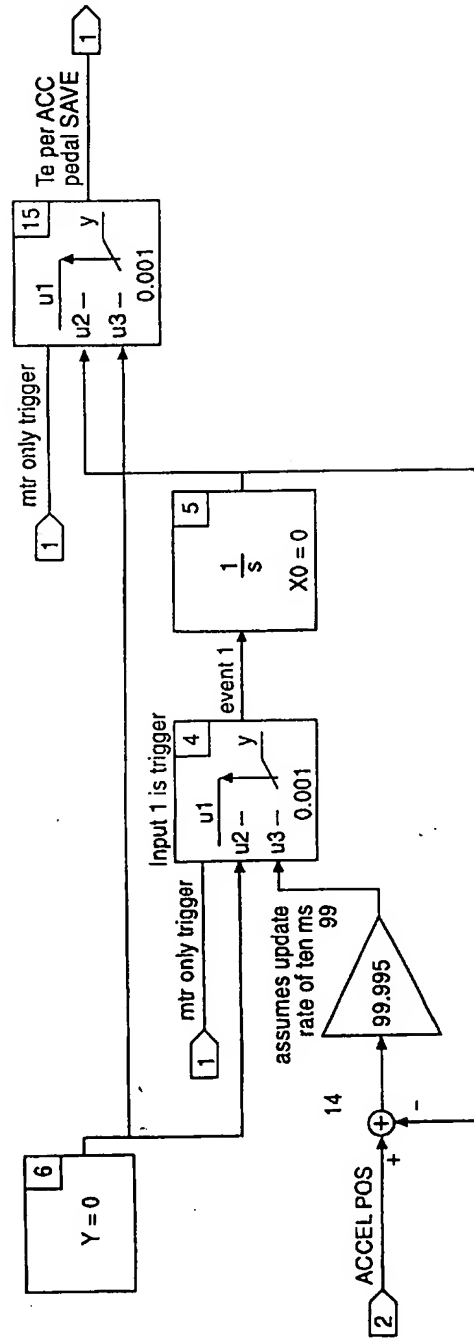


FIG.6

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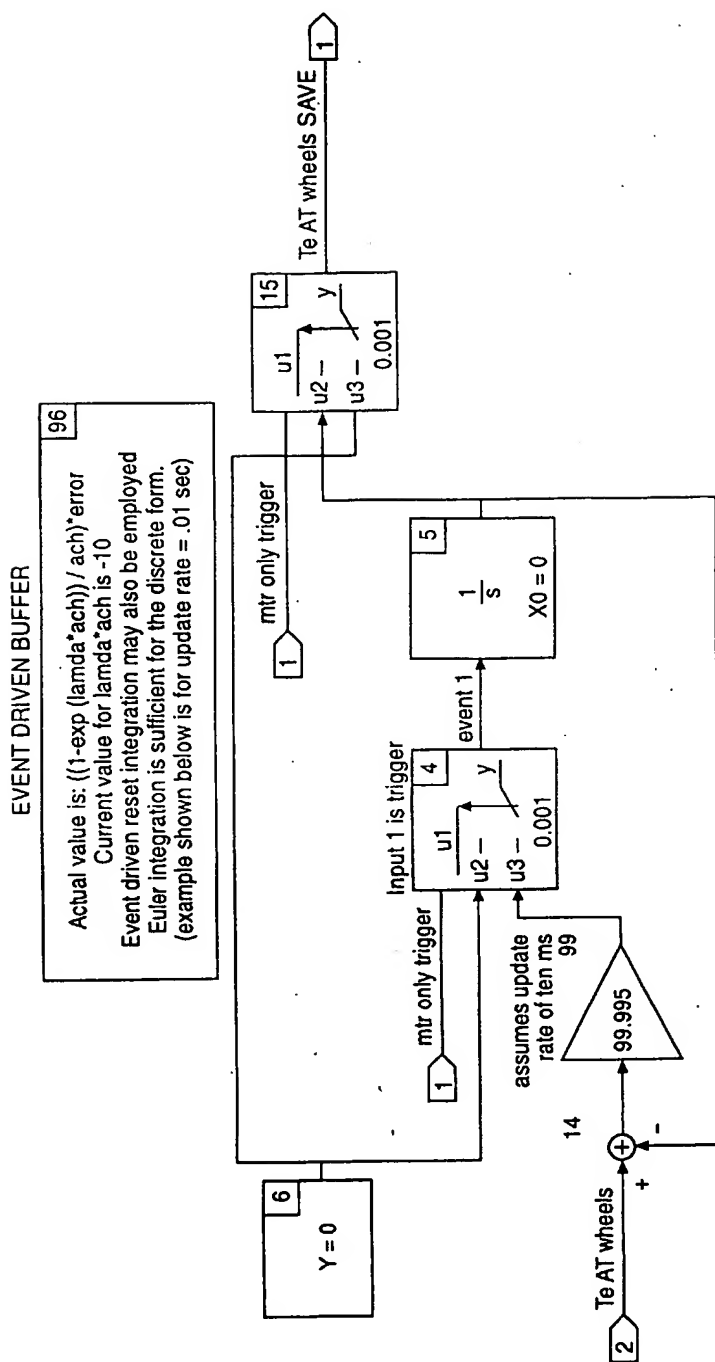


FIG.7



Continuous Super Block		Inputs	Outputs
Engine Tq Command		5	2

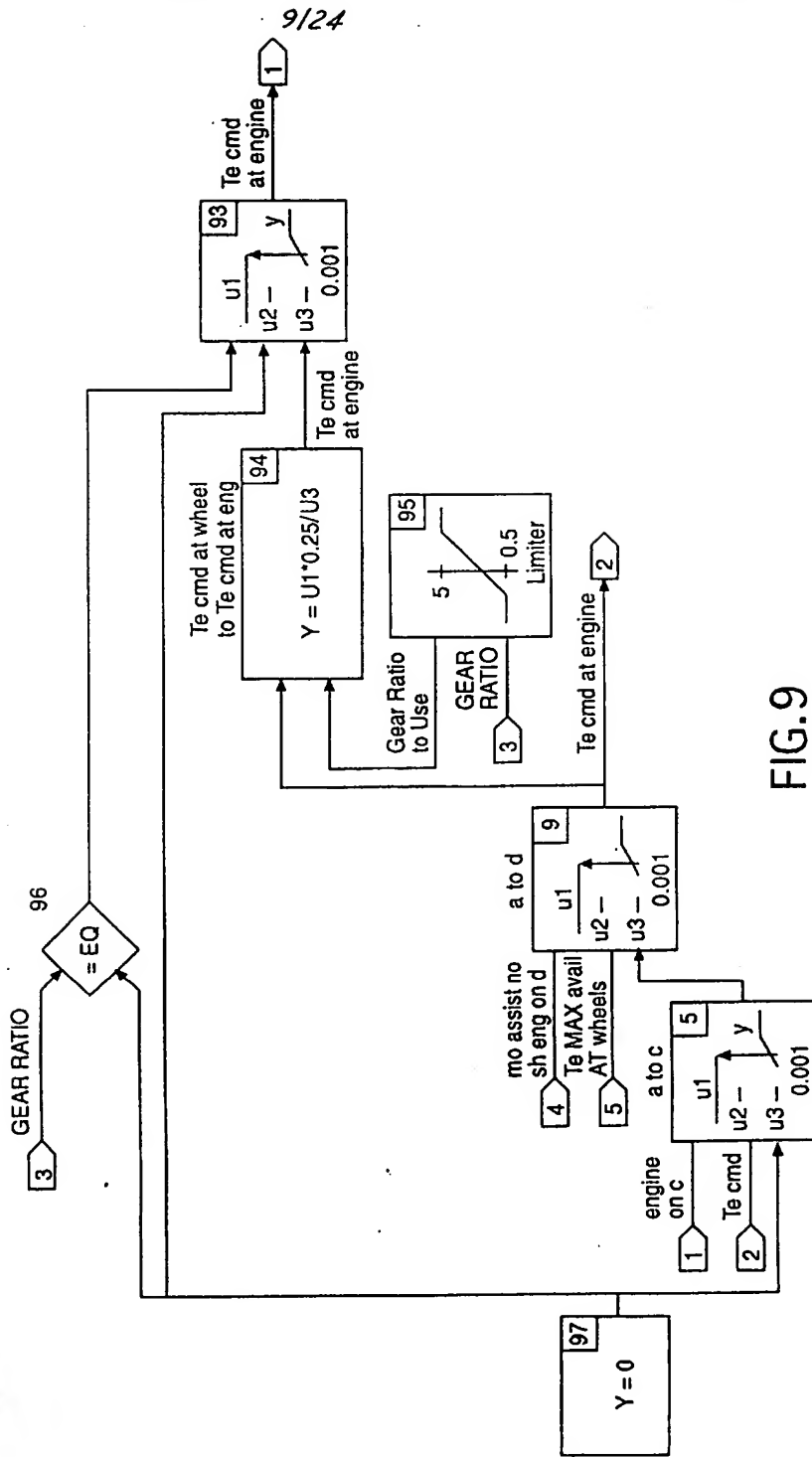


FIG. 9

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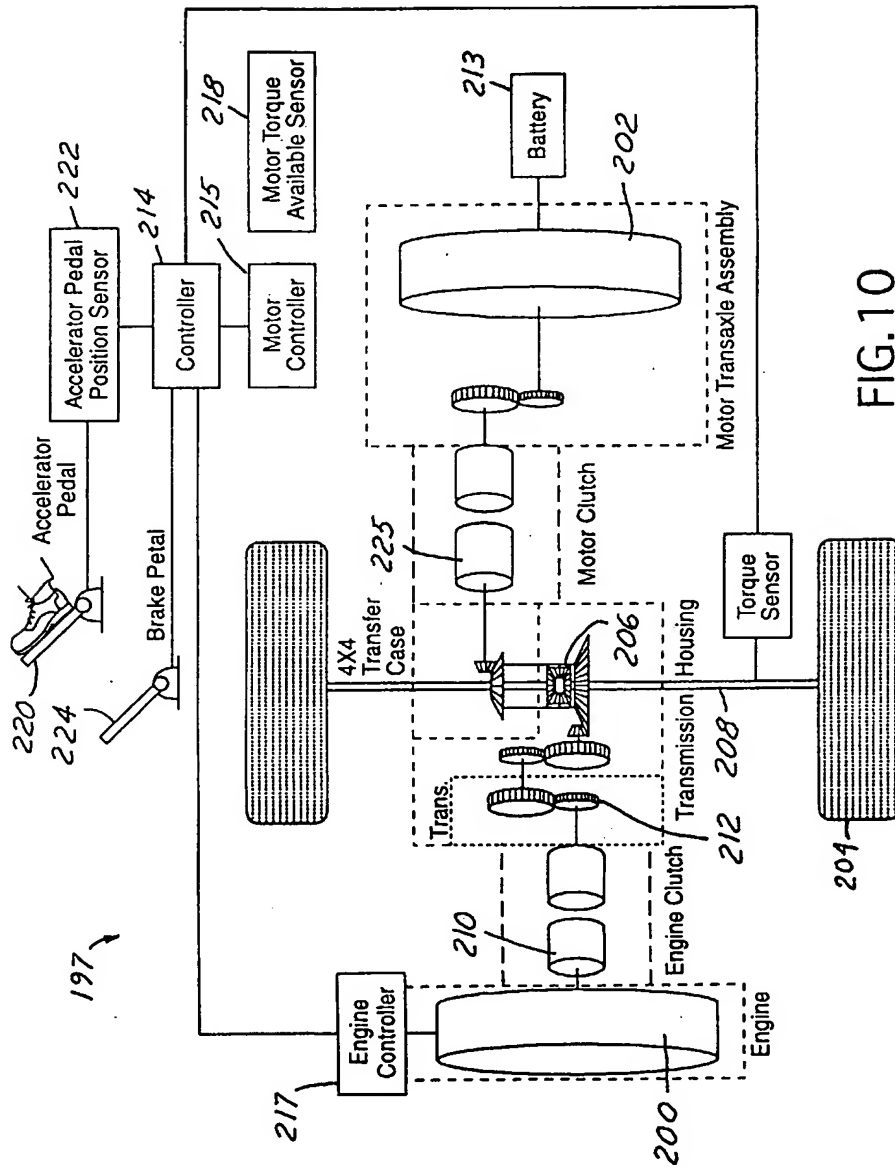
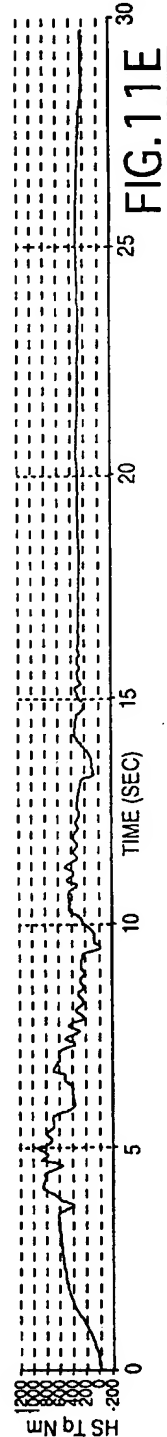
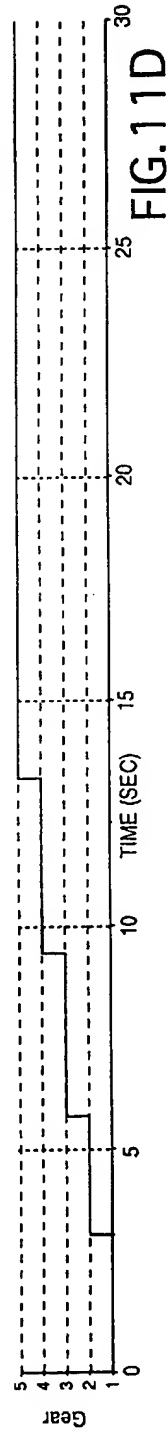
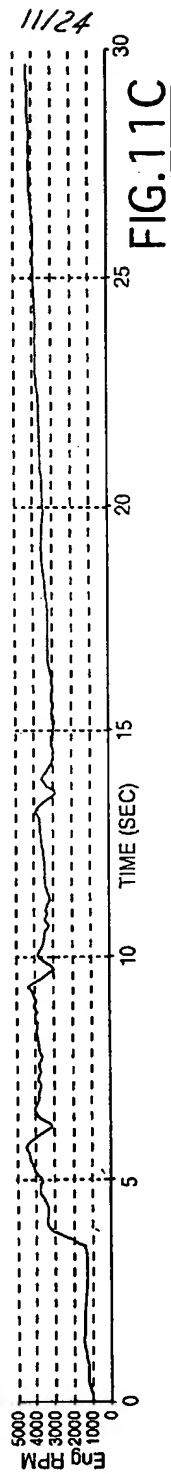
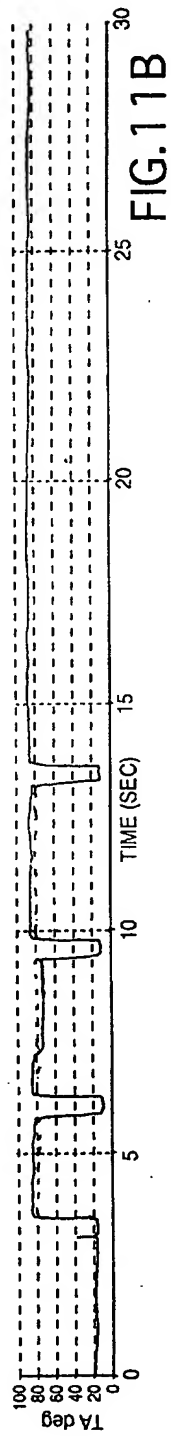
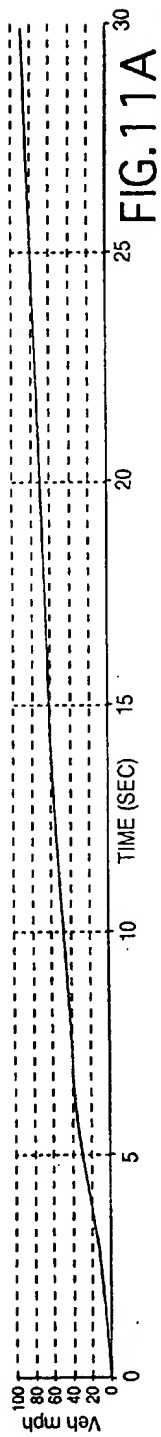
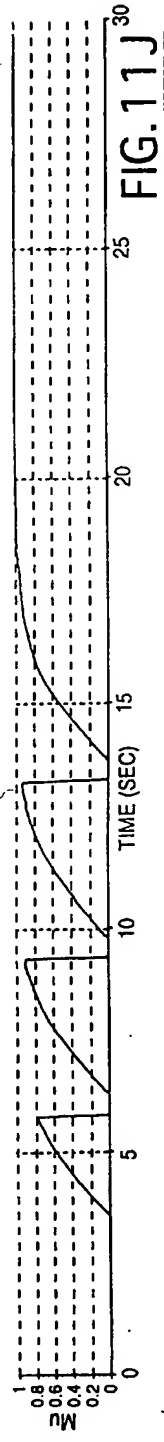
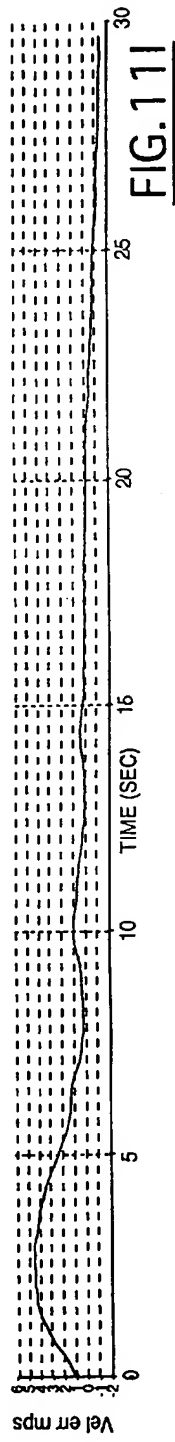
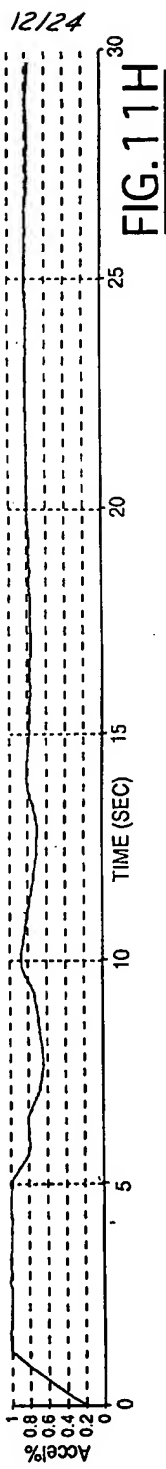
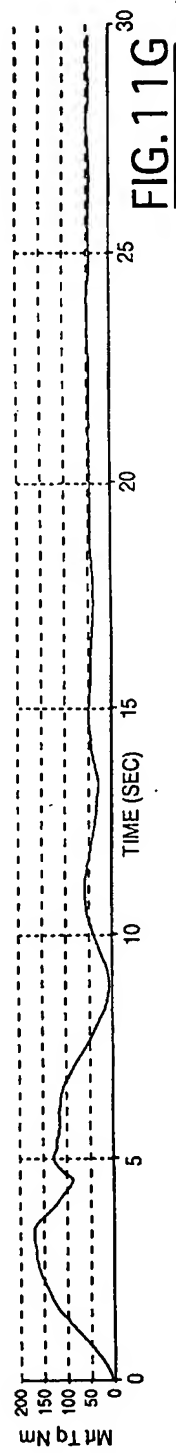
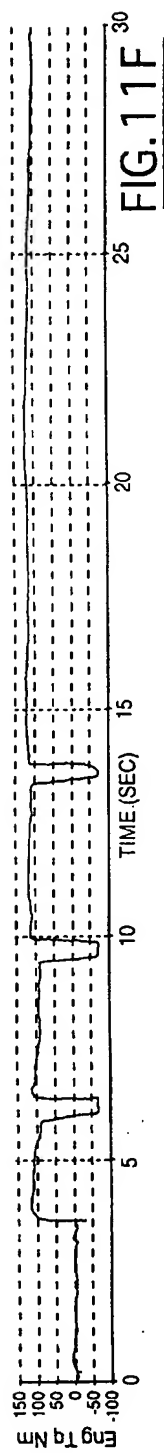
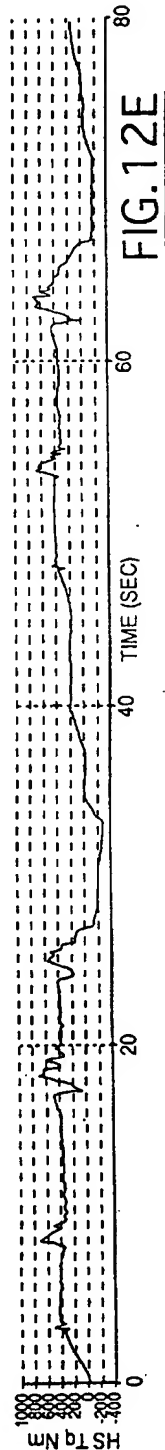
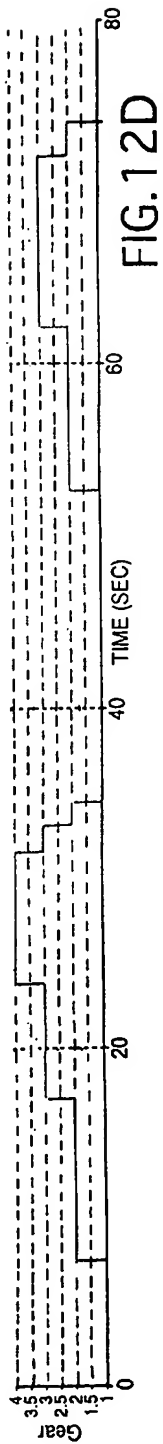
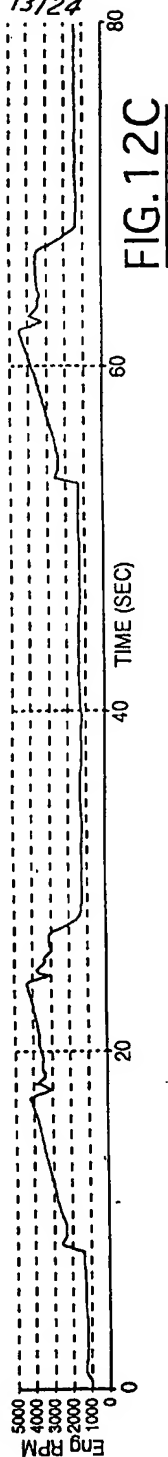
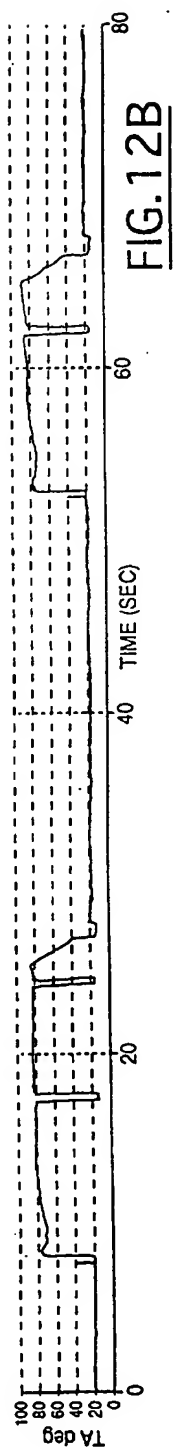
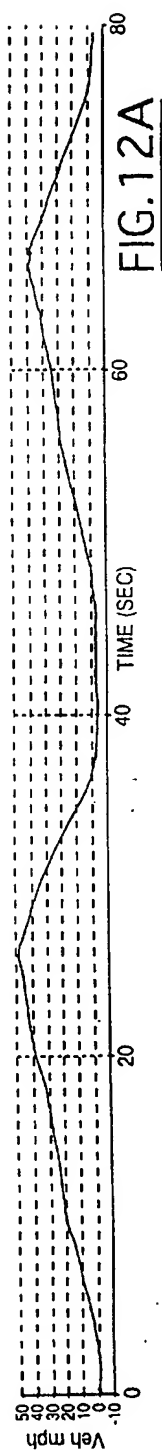


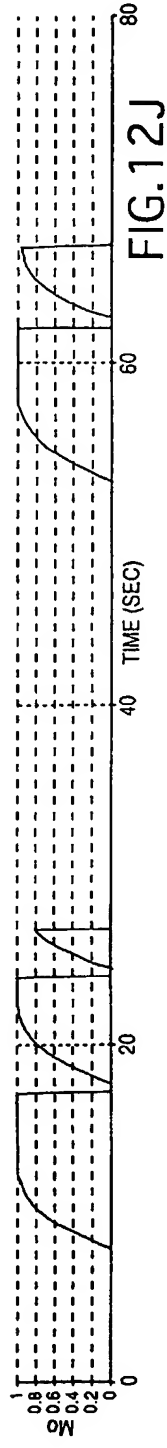
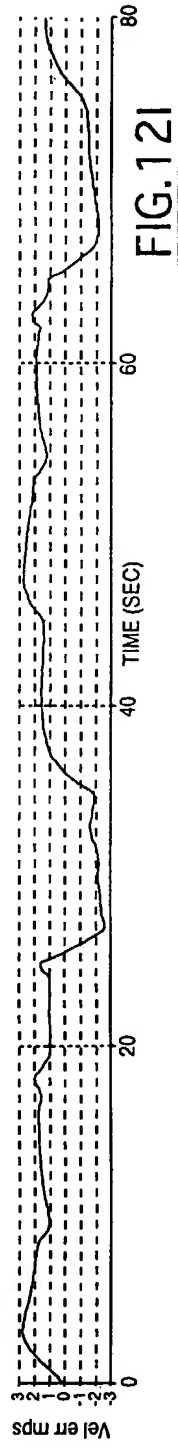
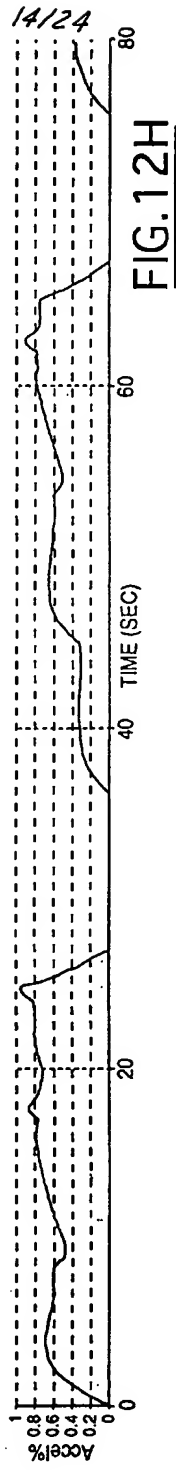
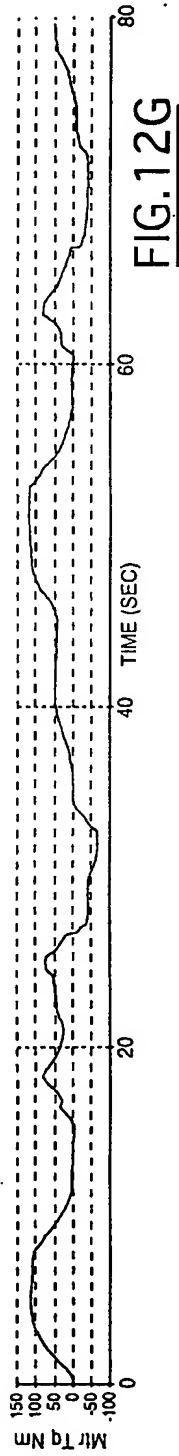
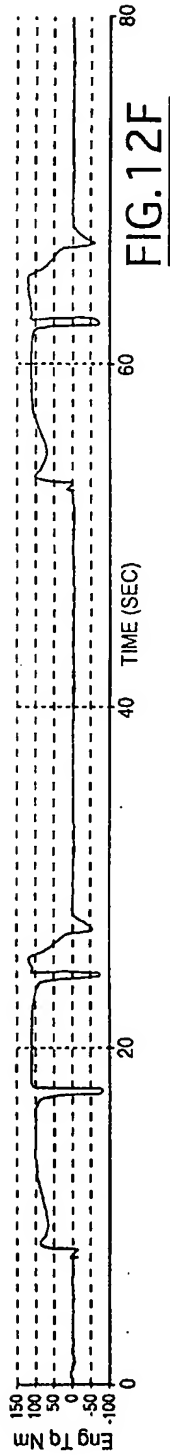
FIG. 10

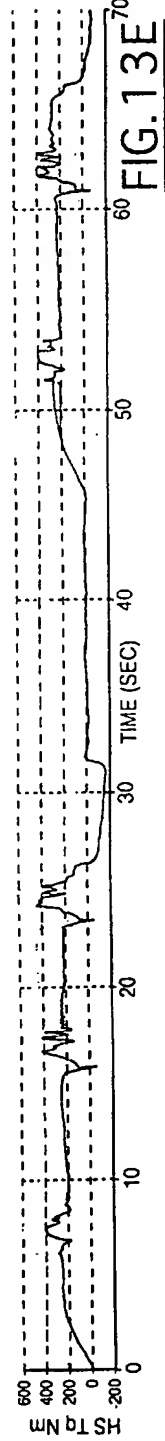
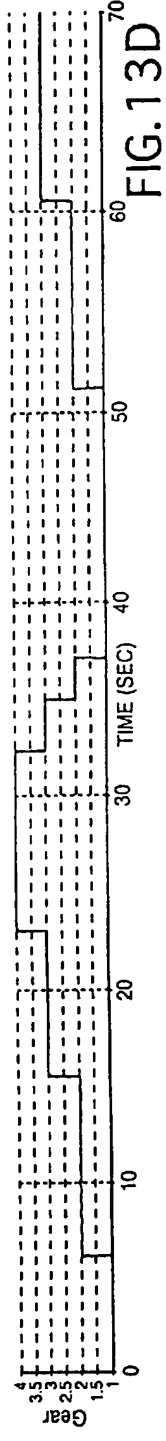
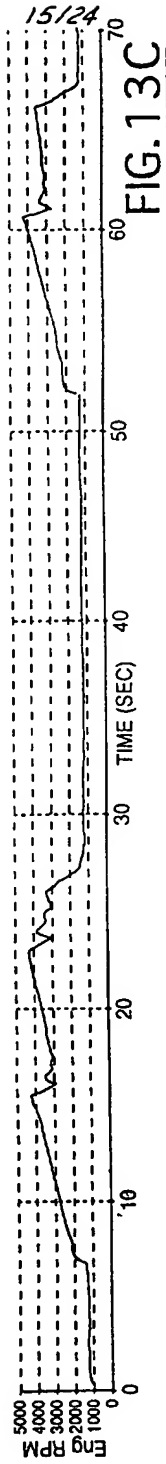
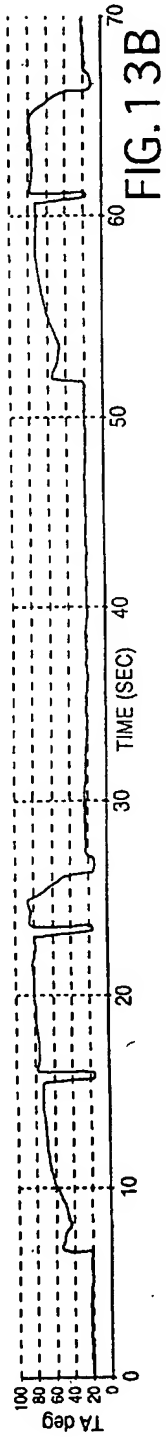
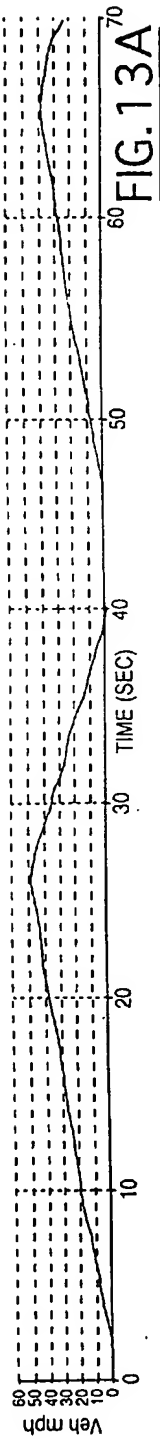
[illegible]

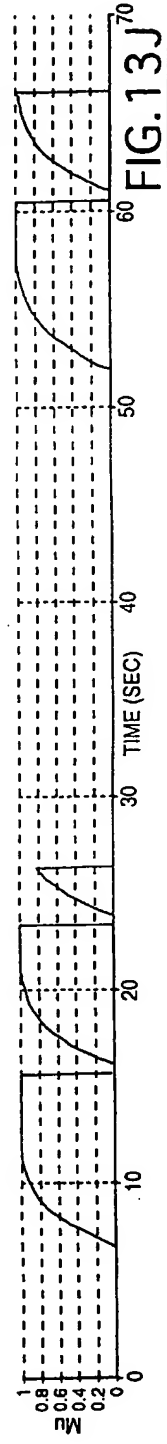
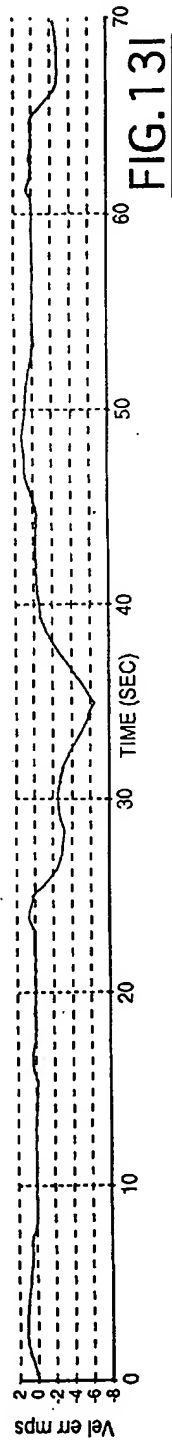
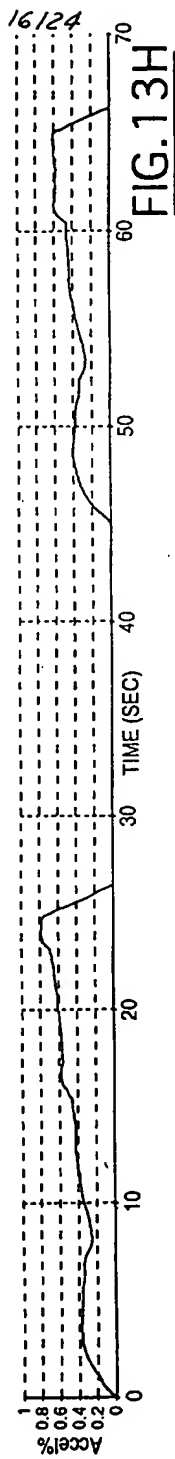
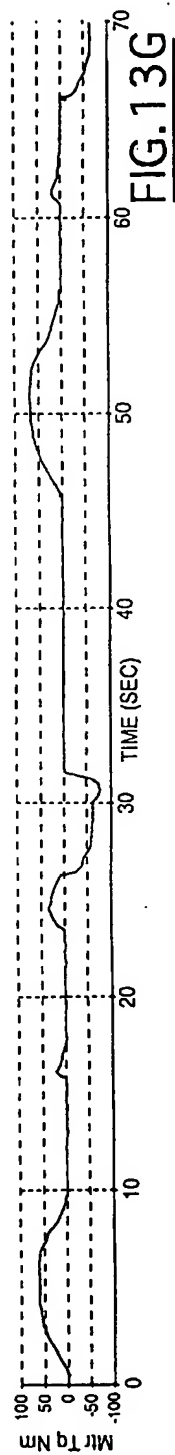
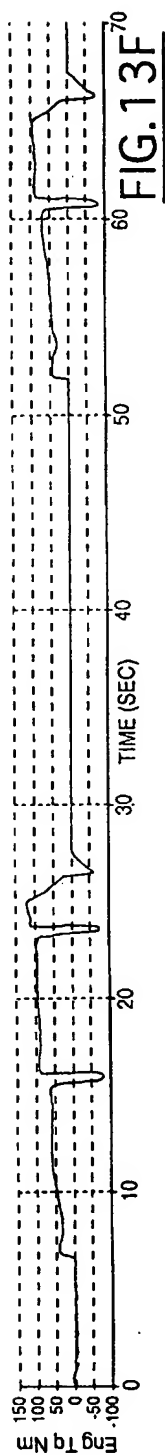
[illegible]

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[illegible]





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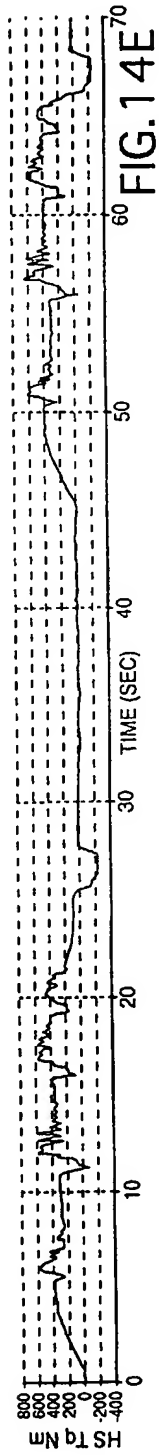
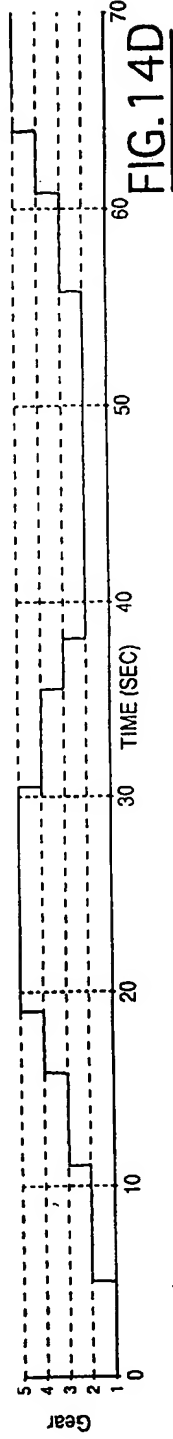
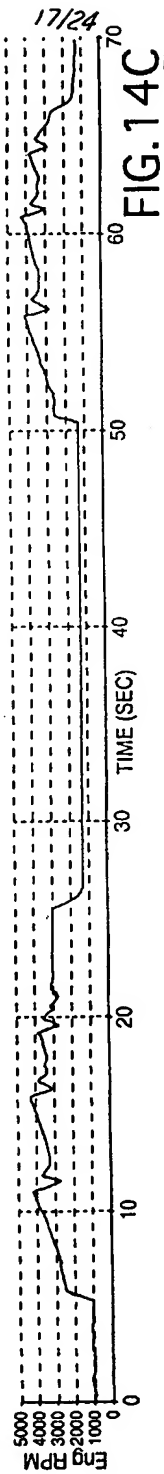
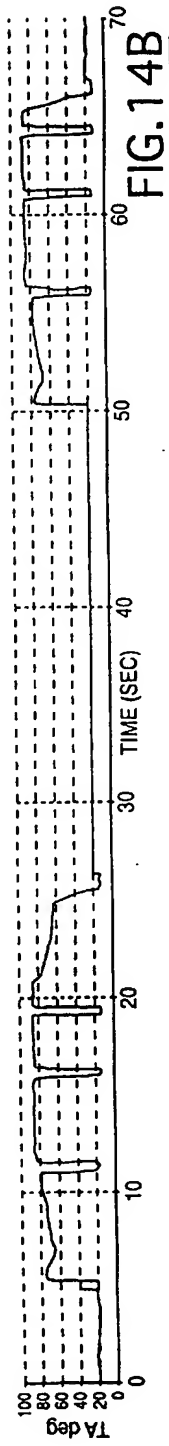
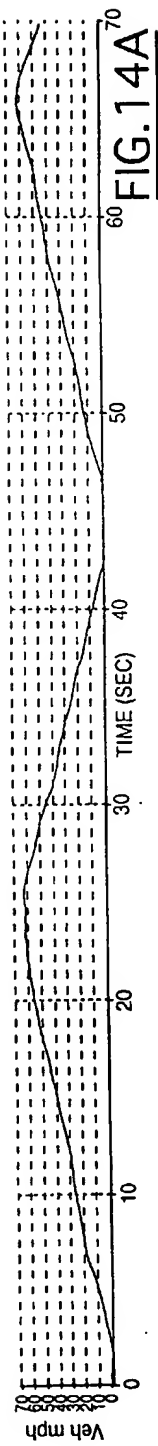
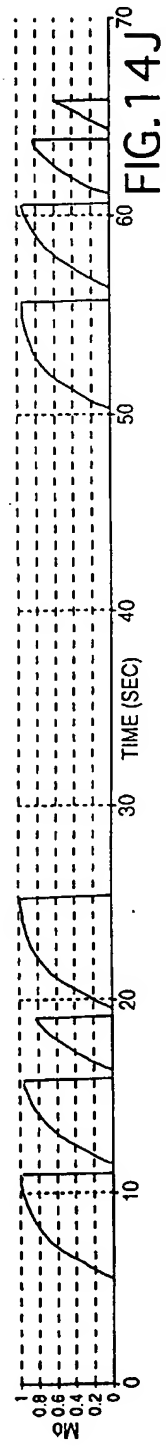
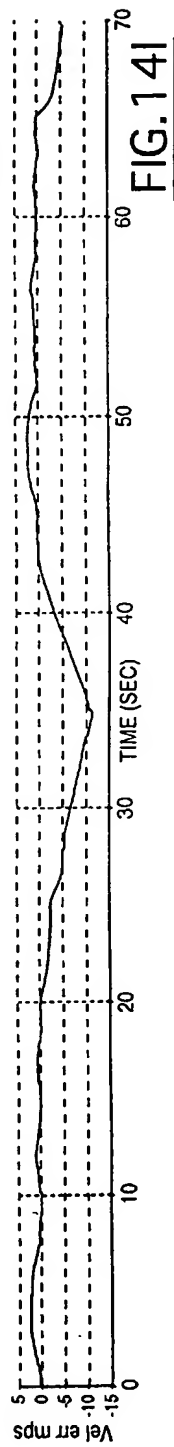
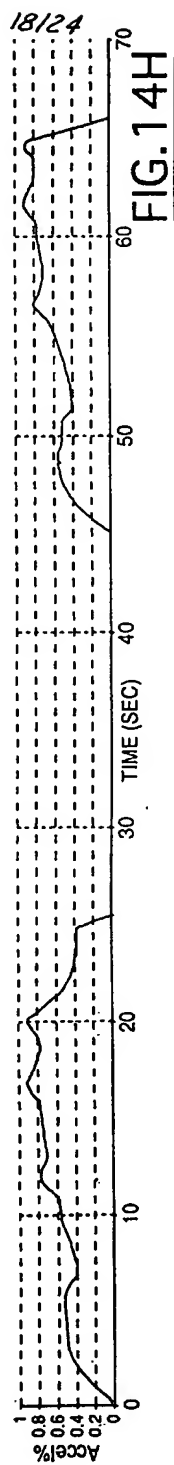
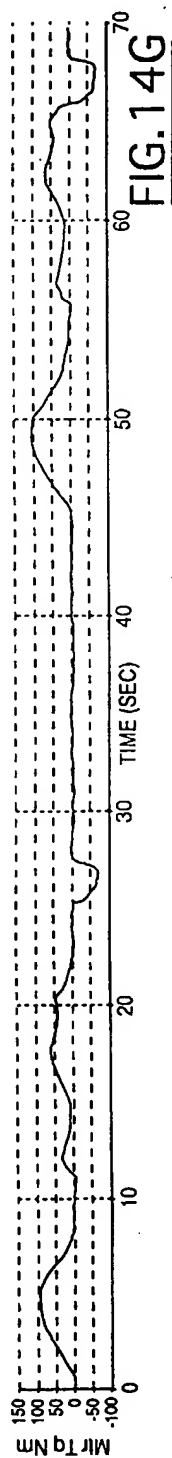
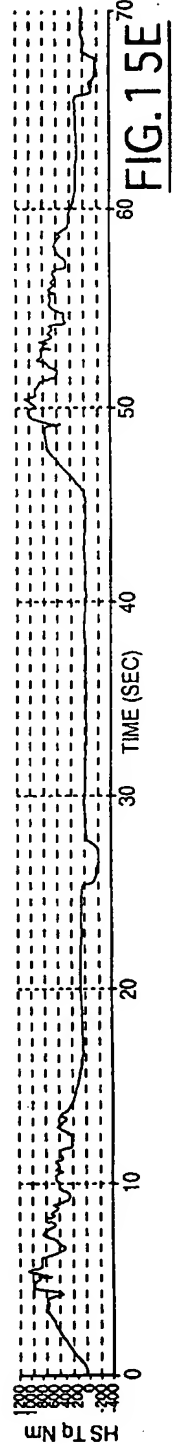
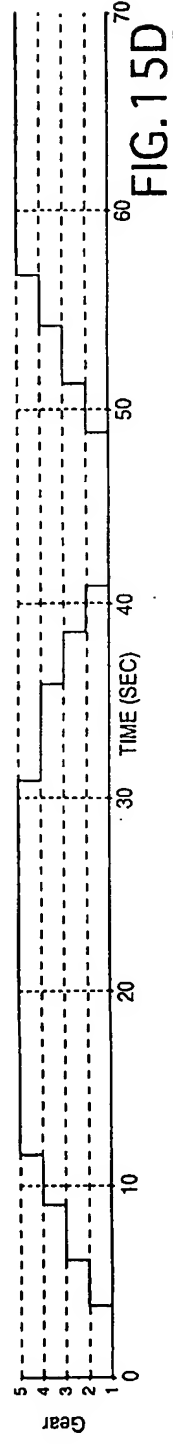
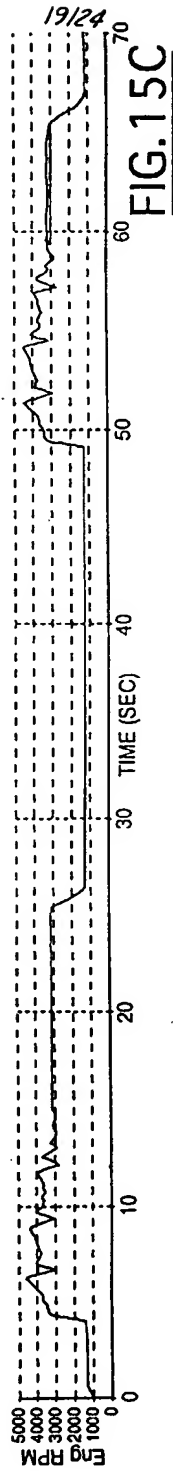
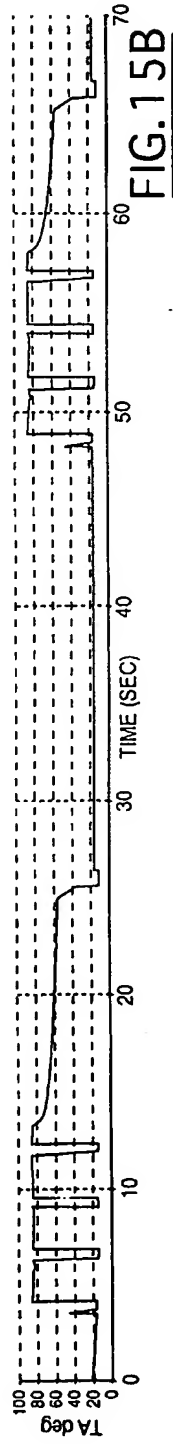
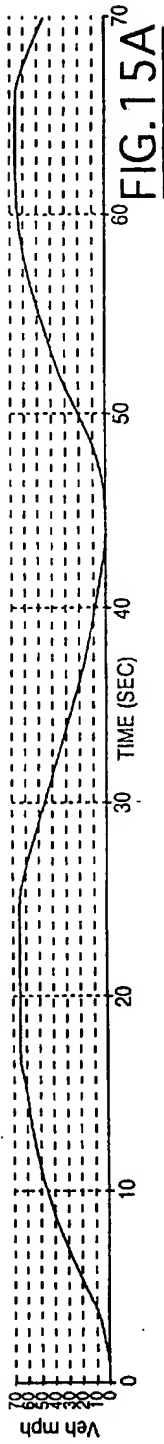


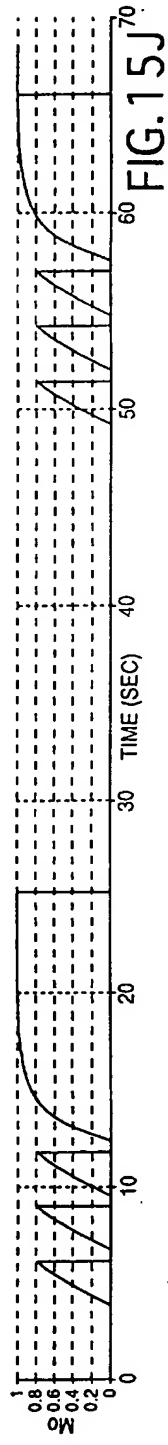
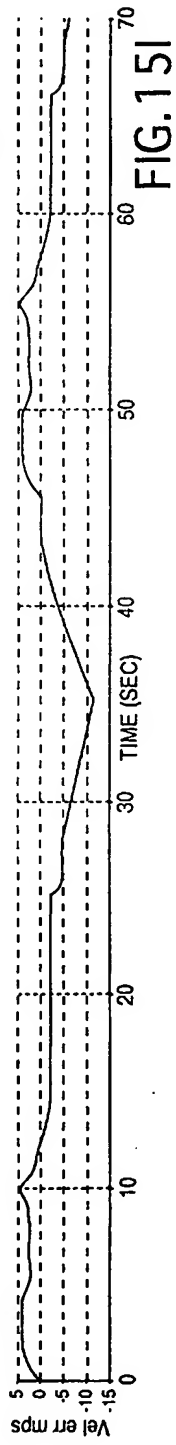
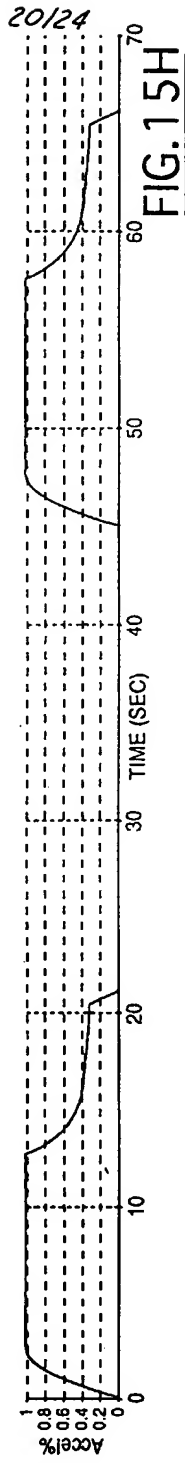
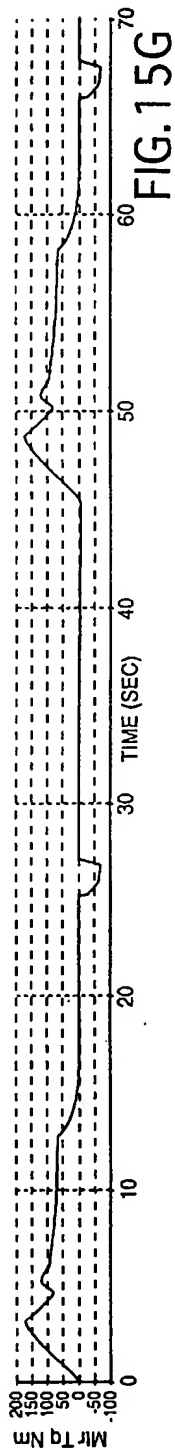
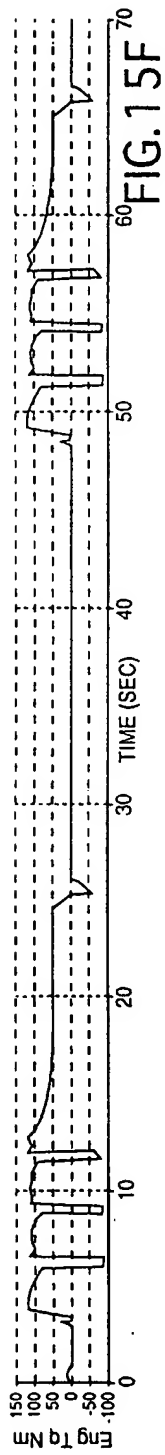
FIG. 14F



Year	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100
1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100	



200320-001-0001



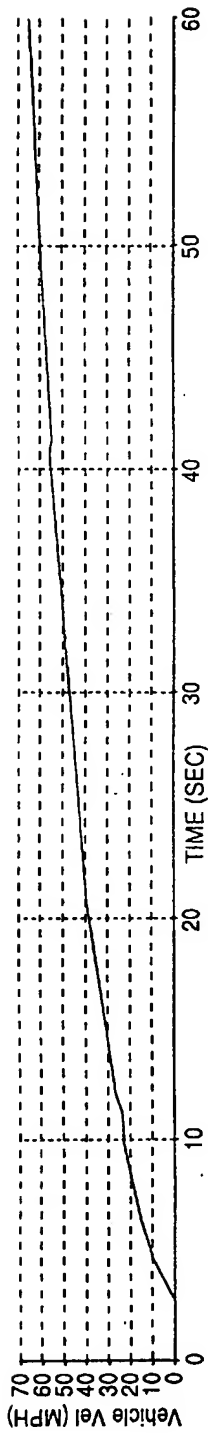


FIG. 16A

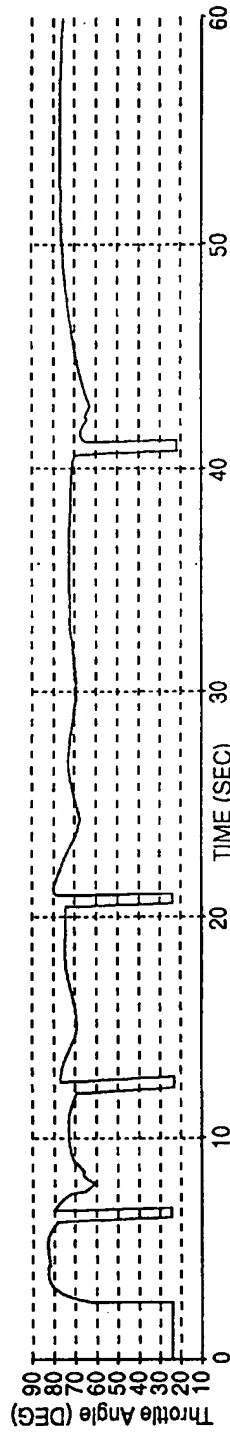


FIG. 16B

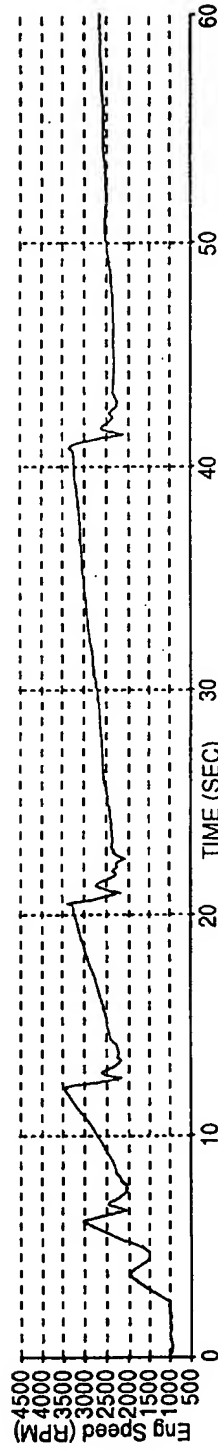


FIG. 16C

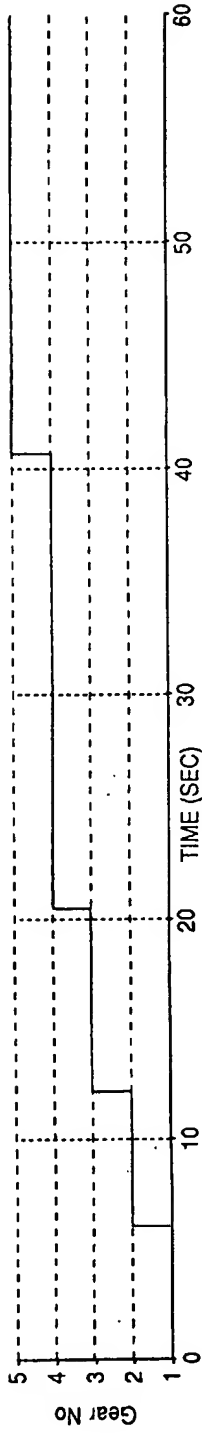


FIG. 16D

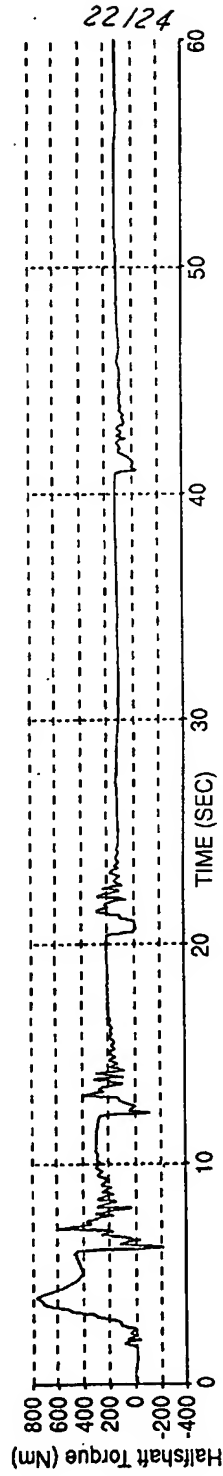


FIG. 16E

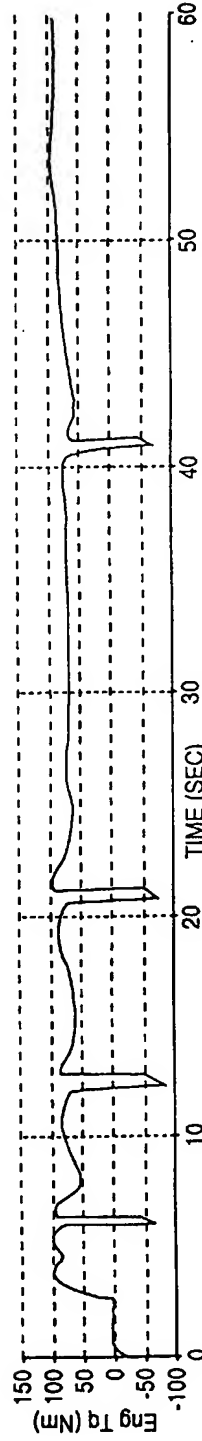


FIG. 16F

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